Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) An image information describing method comprising:

sampling a video information file, including video frames, with a variable time interval parameter and a variable size parameter to obtain thumbnail frames for the video information file; and

describing attribute information of the thumbnail frames for specifying each of the video frames corresponding to each of the thumbnail frames as thumbnail information, the attribute information comprising position information indicative of a position of the video frame corresponding to the thumbnail image on a time axis and size information of the thumbnail image.

2. (Previously Presented) The image information describing method according to claim 31, further comprising describing additional information contains scene change position information of the video information.

3. (Previously Presented) The image information describing method according to claim 31, further comprising additional information contains frame change value information of the video information.

4. (Previously Presented) The image information describing method according to claim 31, wherein the attribute information contains position information indicative of a position on a time axis of the video frame corresponding to the thumbnail frame.

5. (Previously Presented) The image information describing method according to claim 31, wherein the attribute information contains information concerning the size of the thumbnail frame.

6. (Previously Presented) The image information describing method according to claim 31, wherein the attribute information contains information concerning the resolution of the thumbnail frame.

7. (Previously Presented) The image information describing method according to claim 31, wherein the thumbnail information contains image data of the thumbnail frame or a pointer for the thumbnail frame.

8. (Previously Presented) The image information describing method according to claim 31, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

9. (Currently Amended) A video retrieval method for retrieving video information file including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information file with a variable time interval parameter and a variable size parameter, the video retrieval method comprising:

describing, as the thumbnail information, attribute information ~~containing at least~~ of the thumbnail frames for specifying each of the video frames corresponding to each of the thumbnail frames as thumbnail information, the attribute information comprising first position information indicative of a position ~~on a time axis in order to specify the video frame~~ of the video frame corresponding to ~~each of the thumbnail frames~~ the thumbnail image on a time axis and size information of the thumbnail image; and

retrieving the thumbnail frame having the closest first position information to a second position information indicative of a position on the time axis of a desired video frame of the predetermined video information.

10. (Previously Presented) The video retrieval method according to claim 34, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.

11. (Previously Presented) The video retrieval method according to claim 34, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

12. (Currently Amended) A video retrieval method for retrieving video information file including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling video information file with a variable time interval parameter and a variable size parameter, the video retrieval method comprising:

describing, as the sample image information, attribute information ~~containing at least~~ of the thumbnail frames for specifying each of the video frames corresponding to each of the thumbnail frames as thumbnail information, the attribute information comprising first

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position information indicative of a position <u>of the video frame</u> ~~on a time axis in order to~~

~~specify the video frame~~ corresponding to ~~each of the thumbnail frames~~ <u>the thumbnail image</u>

<u>on a time axis and size information of the thumbnail image</u>; and

describing, as additional information, scene change position information of the video

information; and

retrieving a thumbnail frame having the closest first position information to a second

position information indicative of a position on the time axis of a desired video information

and earlier or later than the scene change position information.

13. (Previously Presented) The video retrieval method according to claim 37,

wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of

one frame of the video information with arbitrary time interval and size.

14. (Previously Presented) The video retrieval method according to claim 37,

wherein the plurality of thumbnail frames are stored as one item of the thumbnail

information.

15. (Currently Amended) A video retrieval method for retrieving video information

<u>file</u> including a plurality of video frames by employing thumbnail information concerning a

plurality of thumbnail frames obtained by sampling the video information <u>file</u> with a variable

time interval parameter and a variable size parameter, the video retrieval method comprising:

describing, as the thumbnail information, attribute information ~~containing at least~~ <u>of</u>

<u>the thumbnail frames for specifying each of the video frames corresponding to each of the</u>

<u>thumbnail frames as thumbnail information, the attribute information comprising</u> position

information indicative of a position ~~on a time axis in order to specify the video frame~~ <u>of the</u>

video frame corresponding to ~~each of the thumbnail frames~~ the thumbnail image on a time

axis and size information of the thumbnail image; and

retrieving a thumbnail frame in which difference from a desired video information is

equal to or less than a predetermined threshold.

16. (Previously Presented) The video retrieval method according to claim 40,

wherein the position information described for a thumbnail frame in which the difference

from the desired video information is equal to or less than the predetermined threshold is

recorded as the retrieval result.

17. (Original) The video retrieval method according to claim 16, wherein the

thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of

the video information with arbitrary time interval and size.

18. (Original) The video retrieval method according to claim 16, wherein the

plurality of thumbnail frames are stored as one item of the thumbnail information.

19. (Currently Amended) A video reproducing method for reproducing video

information including a plurality of video frames at variable speed by employing thumbnail

information concerning a plurality of thumbnail frames obtained by sampling the video

information with a variable time interval parameter and a variable size parameter, the video

reproducing method comprising:

describing, as the thumbnail information, attribute information ~~containing~~ of the

thumbnail frames, the attribute information comprising ~~and at least~~ position information

indicative of a position ~~on a time axis in order to specify~~ the video ~~frames~~ frame

corresponding to the thumbnail ~~frames~~ frame on a time axis and size information of the thumbnail frame;

describing frame change value information of the video information as additional information; and

changing a reproduction speed of the thumbnail frames according to the frame change value information.

20. (Previously Presented) The video reproducing method according to claim 43, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.

21. (Previously Presented) The video reproducing method according to claim 43, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

22. (Currently Amended) A video retrieval apparatus for retrieving video information file including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information file with a variable time interval parameter and a variable size parameter, the video retrieval apparatus comprising:

a first describing unit configured to describe, as the thumbnail information, attribute information ~~containing at least~~ of the thumbnail frames for specifying each of the video frames corresponding to each of the thumbnail frames as thumbnail information, the attribute information comprising first position information indicative of a position ~~on a time axis in~~

~~order to specify the video frame~~ corresponding to ~~each of the thumbnail frames~~ the thumbnail

image on a time axis and size information of the thumbnail image;

a second describing unit configured to describe, as additional information, scene

change position information of the video information; and

a retrieving unit configured to retrieve a thumbnail frame having the closest first

position information to a second position information indicative of a position on the time axis

of a desired video information and earlier or later than the scene change position information.

23. (Previously Presented) The video retrieval apparatus according to claim 46,

wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of

one frame of the video information with arbitrary time interval and size.

24. (Previously Presented) The video retrieval apparatus according to claim 46,

wherein the plurality of thumbnail frames are stored as one item of the thumbnail

information.

25. (Currently Amended) A video retrieval apparatus for retrieving video information

file including a plurality of video frames by employing thumbnail information concerning a

plurality of thumbnail frames obtained by sampling the video information file with a variable

time interval parameter and a variable size parameter, the video retrieval apparatus

comprising:

a describing unit configured to describe, as the thumbnail information, attribute

information ~~containing at least~~ of the thumbnail frames for specifying each of the video

frames corresponding to each of the thumbnail frames as thumbnail information, the attribute

<u>information comprising</u> position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames; and

a retrieving unit configured to retrieve a thumbnail frame in which difference from a desired video information is equal to or less than a predetermined threshold.

26. (Previously Presented) The video retrieval apparatus according to claim 49, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.

27. (Previously Presented) The video retrieval apparatus according to claim 49, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

28. (Currently Amended) A video reproducing apparatus for reproducing video information including a plurality of video frames at variable speed by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information with a variable time interval parameter and a variable size parameter, the video reproducing apparatus comprising:

a first describing unit configured to describe, as the thumbnail information, attribute information ~~containing~~ <u>of</u> the thumbnail frames<u>, the attribute information comprising</u> ~~and at least~~ position information indicative of a position <u>of</u> ~~on a time axis in order to specify~~ the video frame corresponding to each of the thumbnail ~~frames~~ <u>frame on a time axis and size information of the thumbnail frame</u>;

a second describing unit configured to describe frame change value information of the video information in the thumbnail information as additional information; and

a changing unit configured to change a reproduction speed of the thumbnail frames according to the frame change value information.

29. (Previously Presented) The video reproducing apparatus according to claim 52, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.

30. (Previously Presented) The video reproducing apparatus according to claim 52, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

31. (Previously Presented) The image information describing method according to claim 1, the sampling comprising:

sampling a video frame in the video information;

extracting a part of the sampled video frame; and

sampling the extracted part.

32. (Previously Presented) The image information describing method according to claim 1, the sampling comprising:

sampling a video frame in the video information; and

reducing a resolution of the sampled video frame.

33. (Previously Presented) The image information describing method according to claim 1, the sampling comprising:

sampling a video frame in the video information; and

reducing a size of the sampled video frame.

34. (Previously Presented) The video retrieval method according to claim 9, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

35. (Previously Presented) The video retrieval method according to claim 9, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.

36. (Previously Presented) The video retrieval method according to claim 9, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.

37. (Previously Presented) The video retrieval method according to claim 12, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

38. (Previously Presented) The video retrieval method according to claim 12, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.

39. (Previously Presented) The video retrieval method according to claim 12, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.

40. (Previously Presented) The video retrieval method according to claim 15, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

41. (Previously Presented) The video retrieval method according to claim 15, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.

42. (Previously Presented) The video retrieval method according to claim 15, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.

43. (Previously Presented) The video retrieval method according to claim 19, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

44. (Previously Presented) The video retrieval method according to claim 19, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.

45. (Previously Presented) The video retrieval method according to claim 19, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.

46. (Previously Presented) The video retrieval apparatus according to claim 22, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

47. (Previously Presented) The video retrieval apparatus according to claim 22, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.

48. (Previously Presented) The video retrieval apparatus according to claim 22, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.

49. (Previously Presented) The video retrieval apparatus according to claim 25, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

50. (Previously Presented) The video retrieval apparatus according to claim 25, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.

51. (Previously Presented) The video retrieval apparatus according to claim 25, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.

52. (Previously Presented) The video reproducing apparatus according to claim 28, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

53. (Previously Presented) The video retrieval apparatus according to claim 28, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.

54. (Previously Presented): The video retrieval apparatus according to claim 28, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.